4/16/03

MODIS sensor Working Group (MsWG) Summary

Attendance: Bob Barnes, Stuart Biggar, Vincent Chiang, Roger Drake, Timothy Gubbels, Eddie Kearns, Gerhard Meister, Chris Moeller, Vince Salomonson, Gary Toller, Jack Xiong, Jim Young, Dr. Wan

Scheduled Items

JX reviewed the powerpoint presentation of Key Issues

Item 1 Instrument Status
Terra DSM preliminary results
(1) March 26, 2003
(2) April 14, 2003

JX) Reviewed April 14 DSM moon images of B1, 2, 31
JX) The TEB RVS of DSM1 is nearly identical to that of DSM2 (Slide 4).
     Slides shows comparison with Lincoln Lab reflectance measurements of PFM witness sample
RD) Be careful of the Lincoln Lab RVS from the witness sample!
SB) I remember that we did not trust Lincoln Lab data, so we used NPL for Terra PFM

JX) The PFM pre-launch RVS LUT's were derived from either the Lincoln Lab or NPL data and combined wuth the FM1 RVS measurement.
JX) The FM1 pre-launch RVS LUT's were derived from the NPL data.
JX) It is recognized that the Lincoln Lab data are bad. Can Roger check the serial number of the PFM & FM1 witness samples for NPL measurements?

JX) We need to check out this.
RD) (respond later) according to JY memo, for NPL, s/w 3 and 4 are PFM, s/w 8 and 16 are FM1
JX) MCST will confirm this and make comparison with DSM results for the PFM RVS

Item 2 L1B and LUTs Related Issues
Aqua m1 Issue

JX) The Aqua SRCA bad lamp #2 was replaced with a spare. A software patch was installed to fix the dropped command problem.
JX) The current version for Aqua is 4.1.3.4. For Terra, 4.1.2.6.
     The next Aqua version will be 4.1.5, which includes 1) SWIR OOB using B25; 2) B26 destriping; 3) Moon keep-out box that fixes MODIS altitude from 750 km (incorrect) to 705 km (correct).

GT) The error associated to the incorrect altitude is negligible.

JX) Recently the Aqua m1 jumped up about 0.5%, possibly due to incorrect MOD03 input parameters. Jack is still chasing this down. The jump occurred on JD 86 of 2003. The jump is traced to a

software change by MOD3 (Robert Wolf). They had adjusted the data to correct for a .15 degree geolocation shift. Need to talk with Robert Wolf on this issue.

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Around the Table

CM) I am still working the Aqua B26 destriping coefficients issue. I am not getting the data from Brazil.

VS) Did the SeaWiFS lunar views work out OK.

BB) Yes they did.

EK) We are poised to begin a massive reprocessing campaign of Terra MODIS oceans data. The group has strong desire to use the exact meqasured m1's LUTs as a time series. Many people need this data.

JX) We will prepare this for you. It will take a couple of weeks

BB) Do we filter the noise on the m1?

JX) Keep all the measured m1, except for bad data or outliers. The coherent noise will be retained and the random noise will cancel out.

VS) How far back do you go on the reprocessing?

EK) Nov 2000 (Beginning of B side Terra)

JX) Next meeting we will produce the RVS graphics. We will also compare MODIS with SeaWiFS.